Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

5th RA Bill (For Other Works) Head of Account:

Division: EE Byatrayanapura Div Sub division: AEE Byatrayanapura Div

Bill Received No. .....Date..... Cash Book Voucher No..... dated.....

Scheduled Docted No.

Name of Work (as per sanctioned estimate): **Improvements to Roads,drains,footpath and park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)**

Name of Contractor and Full Address: **Sri.Pramodh M/s Karthik Enterprises, No. 123, Aiswaraya, 3rd Cross, Ramannaa Garden, Vidyaranyapura, Bangalore - 97**

Reference to Work order No. **BBMP/EE/BTP/WO/20?2017-18**

Certified that the measurement were taken by me on 20/9 and recorded of pages: 35726 - 278 To ..... of measurement Book No: 3573/17-18 and that the work is satisfactorily executed.

Contractor : Officer-In-Charge of work

Certified that the measurements were taken by me on 20/9/18 are found correct and the work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

Sub-Division Officer

I Memorandum of Payment

1) Total value of work done or supplies made as per account within	6 13 88 908-00
2) Deduct amount to be held in reserve being.....percent Rs.....	
3) Deduct amount to be held in Balance	
4) Deduct Payments:	
a) Amount of previous payment as in the office Cash Book Voucher No.....Dated .....S.D No.....	4th RA part B Total Rs: 5,14,10603-00
Amount adjusted towards cash advance recovery of	5th and 6 part Bill Rs: 99 36807-00
b) Payments cost store or other materials supplied	CGST - 99413-00
Now made recovery of amount creditable to this/other work	SGST - 99413-00
Amount paid on this bill Cheque/Cash	IT - 198826-00
	Cess - 99413-00
	CBF - 9941-00
	LR - 119295-00
5) Balance being unpaid value of work done held in reserve	
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated..... less adjustments	
7) Net amount due to or from contractor	
Unadjusted items	Adju- 626301-00
8) Advance to contractor for materials brought to site (as detailed) with Value of Government materials supplied	Cheque: 9310506-00

Contractor's Signature

Received **Rs.**

by cash and by adjustment of Payment as per memorandum.

Witnesses:

1

2

Stamp

Dated..... Signature of Contractor

Paid by me by cheque No.....dated.....

Cast Rs.....dated.....

Initials of Officer making payment

(For use in the Office)

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 99 36807-00

ಗಳಿಗೆ ಪಾವತಿ ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ. 626301-00

ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 9310506-00

Rs: Nine crore three lakh ten thousand five hundred and six only.

ಇಂತಿ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Executive Engineer

ಕಾ. ನಿ. ಅ. 24/11

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

Improvements to Roads,drains,footpath and park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)

1	**Improvements to Road,Drain and Footpath in Kannuramma Main Road and abutting Cross Roads in Ward No.8, Kodigehalli**
2	**Improvements to Road,Drain and Footpath in Main Road and abutting Cross Roads of Maruthinagara 1st Stage in Ward No.8, Kodigehalli**
3	**Improvements to Road,Drain and Footpath in 5th Main Road and abutting Cross Roads of Tatanagar in Ward No.8, Kodigehalli**
4	**Developments and Improvements to Parks, in CQAL Layout and Sahakaranagara in Ward No.8, Kodigehalli**

Bill No : 5th Part Bill

BOQ Sl.No	Description of work	Unit	BOQ Qnty
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. II. By mechanical means, A. Cement concrete Grade M-15 & M-20 (P.No.137, I.No.18.20 of PW,P&IWTD SR 2016-17)	Cum	73.60
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)	Sqm	10125.29
3	Removing & Resetting of Footbath slab	Sqm	2231.91
4	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)	Cum	16048.83
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)	Cum	842.36
6	Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17	Cum	1600.67
7	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)	Sqm	76.55

Rate	Previous bill		Present bill		Total claimed up to this bill	
	Qnty	Amount	Qnty	Amount	Qnty	Amount
488.86	58.22	28464- 28461.43	0.00	0.00	58.22	28464- 28461.43
84.48	6774.69	572325.81	0.00	0.00	6774.69	572325.81
138.94	1631.31	226654.21	0.00	0.00	1631.31	226654.21
202.30	6236.19	1261582.02	462.54	93570.83	6698.73	1355152.85
5608.71	388.59	2179474.32	236.79	1328073.82	625.38	3507548.14
11568.66	773.99	8953983.77	295.31	3416340- 3416283.14	1069.29	12370323- 12370266.91
256.76	55.30	14198.83	12.35	3170.99	67.65	17369.81

8	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)	Sqm	551.16
9	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)	Cum	238.30
10	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work	Tonne	89.33
11	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)	Sqm	3672.20
12	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications, (only chamfered length shall be recorded) KBS 5.1.13 (P.No.24, I.No.5.22 of PW,P&IWTD SR 2016-17)	Rmt	10164.00
13	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.23, I.No.5.17 of PW,P&IWTD SR 2016-17))	Sqm	3079.50
14	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)	Cum	181.27
15	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(P.No.24, I.No.5.26.2 of PW, P&IWTD SR 2016-17)	Sqm	584.00
16	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)	Sqm	421.25

325.67	325.38	105966.50	62.02	20198.05	387.40	126164.56
6534.60	120.08	784658.10	5.20	33979.92	125.28	818638.02
62300.47	47.37	2951327- 2951236.97	7.92	493420- 493639.20	55.29	3444747- 3444876.17
867.87	1856.81	1611469.69	381.51	331101.08	2238.32	1942570.78
38.90	7798.80	303373.32	2365.20 2481.00	92006- 96510.90	10164- 10279.80	395379- 399884.22
605.78	1783.44	1080372.28	479.61	290538.15	2263.05	1370910.43
4653.92	106.24	494417- 494426.41	12.04	56033- 56042.50	118.28	550450- 550468.92
1008.15	258.08	260183.35	198.00	199613.70	456.08	459797.05
107.82	260.07	28040.53	0.00	0.00	260.07	28040.53

17	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)	Cum	124.71
18	KSRRB M400-19: Construction of Median and island above road level with approved material deposited from borrowpits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.407 (P.No154 of I.No.20.20 in PW,P&IWTD SR 2014-15)	Cum	123.80
19	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.(P.No.109, I.No.14.62 of PW,P&IWTD S.R 2015-16)	Sqm	1744.00
20	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	4131.99
21	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	564.90
22	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)	Nos	6690.00
23	Removing and Resetting of Kerb Stones (P.No.258, I.No.37.57 of PW,P&IWTD S.R 2015-16)	Rmt	504.00
24	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.179, I.No. 24.1 of PW,P&IWTD SR 2015-16)	Sqm	1592.75
25	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)	Cum	2389.63

6047.76	63.51	384077.36	5.43	32834.80	68.94	416912.16
218.97	38.58	8447.86	0.00	0.00	38.58	8447.86
1205.99	192.90	232635.47	303.30	365776.77	496.20	598412.24
1780.52	1863.57	3318123.66	520.90	927472.87	2384.47	4245596.52
4995.53	392.25	1959496.64	64.65	322961.01	456.90	2282457.66
347.90	3827.00	1331413.30	1180.00	410522.00	5007.00	1741935.30
68.91	211.00	14540.01	0.00	0.00	211.00	14540.01
66.69	601.76	40131.04	0.00	0.00	601.76	40131.04
162.28	1424.27	231130.32	255.56	41471.71	1679.83	272602.03

26	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)	Cum	1375.36
27	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)	sqm	5510.44
28	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)	Sqm	51151.79
29	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)	Sqm	79163.61
30	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.163 I.No. 21.17.6 of PW,P&IWTD S.R 2016-17)	Cum	1234.01
31	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)	Cum	2297.71
32	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)	Sqm	2694.58

1854.01	1135.24	2104745.88	0.00	0.00	1135.24	2104745.88
28.90	4472.05	129242.26	0.00	0.00	4472.05	129242.26
3.33	30307.04	100922.44	0.00	0.00	30307.04	100922.44
12.23	50703.15	620099.50	0.00	0.00	50703.15	620099.50
6748.01	799.08	5392180.94	0.00	0.00	799.08	5392180.94
7623.89	1394.15	10628859.97	0.00	0.00	1394.15	10628859.97
569.10	1150.48	654736.75	0.00	0.00	1150.48	654736.75

33	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M20 (at 300Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work	Cum	160.20
34	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work	Sqm	1068.00
36	Providing and fixing M S Grating	Sqm	35.64
37	KSRRB M2600-5.(iv) Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight complete as per specifications MORTH Specification No. 2605(P.No.243, I.No.31.5 of PW,P&IWTD S.R 2016-17)	Rmt	2573.70
39	KSRRB M800-35. Supply and Installation of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000kg tested in accordance to specification of category A of MORTH Circular No RW/NH/33023/10-97-Do III Dt 11.06.1997. The Height, width and length shall no exceed 50mm, 100mm, and 102mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30 mm) from the body is to be a minimum vakue of 500 kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with seal and signature in originals. (P.No.189, I.No.24.41 of PW,P&IWTD SR 2016-17)	Nos	2092.20

5776.55	0.00	0.00	100.83	582460.37	100.83	582460.37
100.04	0.00	0.00	625.86	62610.53	625.86	62610.53
6970.04	15.79	110039.51	0.00	0.00	15.79	110039.51
25.56	822.00	21010.32	0.00	0.00	822.00	21010.32
376.80	2147.00	808989.60	0.00	0.00	2147.00	808989.60

40	Manufacturing, Supply & Fixing of Retro- Reflection Road name sign board single Arrow size 1.98X0.9m size made out if wide angle cube corner micro prismatic grade sheeting confirming to IRC 67:2010 & type XI standards of ASTM D 4956-09 specifications and fixed over 2mm thick aluminium sheet back support frame of stainless stell supported by 30NB 1.2mm thick stainless steel pipe all around and 65NB 1.5mm thick pipe vertical post (AISI 202 Grade) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 30cmx30cmx45cm etc.complete. The information message shal be made out of cut out letters in blue colour transparent overlay film as per IRC 67-2010 Guidelines, 7 years pre-qualification warranty for retro reflective sheeting from the original sheeting manufacturer and a certied copy of three years outdoor exposure report from an independent test lab for the product offered shall be submitted by the contractor. The sign board shall be Retro-Reflective Type XL	Nos	16.00
41	KSRRB M300-59.1. Loosening of the ground upto a level of 500mm below the subgrade level, watered, graded and compacted in layers to meet requirement of Table 300-2 for subgrade construction complete as per specifications. Case-I:Compacting original ground supporting subgrade.(which includes watering charges & compaction by vibratory roller) MORTH Specification No. 305.3.4	Cum	1845.00
42	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3	Sqm	4200.00
45	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)	Sqm	577.08
47	Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring and strutting, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavation earth to the extent required including the cost of labour & HOM of machineries, as per drawing and technical specification.	Cum	429.38
54	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	40.98
55	KSRRB 2100.-2.2: Earthwork in excavation for foundations of structures as per drawings and techincal specifications including, setting out , construction of shoring & bracing , removal of stumps and other deleterious matter , dressing of sides and bottom and backfilling with approved material complete as per specifications .B. Machanical means (i) Depth - 3.0 Mtr to 6.0 m depth MORTH specification - No - 304(P.No.216, I.No.27.5 of PW,P&IWTD S.R 2016-17))	cum	1029.00
56	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications, specification. No. KBS (P.No.6, I.No.2.15 of PW,P&IWTD S.R 2016-17))	cum	65.55

29622.95	16.00	473967.20	0.00	0.00	16.00	473967.20
57.80	126.38	7304.48	0.00	0.00	126.38	7304.48
5.56	421.25	2342.15	0.00	0.00	421.25	2342.15
698.03	463.32	323411.26	0.00	0.00	463.32	323411.26
75.58	0.00	0.00	90.99	6877.02	90.99	6877.02
5871.03	0.00	0.00	40.69	238539- ~~238892.21~~	40.69	238539- 238892.21
167.15	227.50	38026.63	483.51	80818.28	711.01	118844.90
2394.08	26.25	62844.60	0.00	0.00	26.25	62844.60

57	KSRRB M2100-13. Plain / Reinforced Cement Concrete M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum in Open Foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500,1700 & 2100.(P.No.218, I.No.27.24 of PW,P&IWTD S.R 2016-17)	Cum	41.10
58	Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete.(1.50 mtrs depth below LWL.)(P.No.264, I.No.37.41.1 of PW,P&IWTD S.R 2016-17)	Cum	146.25
60	KSRRB M800-43. Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45°, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 complete as per specifications.(P.No.190, Item no 24.44 of PW,P&IWTD S.R 2016-17))	Each	20.80
61	KSRRB M2100-20.2. Plain / Reinforced Cement Concrete in Open Foundation with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008. case II : With Batching Plant, Transit Mixer and Concrete Pump MORTH Specification No. 1500,1700 & 2100(P.No.220, I.No.27.37 of PW,P&IWTD S.R 2016-17)	Cum	77.03
62	KSRRB M2200-5.19. Design mix M35 with OPC cement @ 390kgs,with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 - ii) For height, upto 5m,(P.No.224, I.No.28.7.18 of PW,P&IWTD S.R S.R 2016-17)	Cum	140.94
63	KSRRB M2300-8.1. Furnishing and Placing Reinforced/ Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. D. RCC / PSC with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, Case - II : Using Batching Plant, Transit Mixer & Concrete Pump MORTH Specification No. 1500,1600 & 1700-Height upto 5 m(P.No.233 , I.No.29.16.1 of PW,P&IWTD S.R S.R 2016-17)	Cum	40.46
64	KSRRB M2200 -6 Supplying , fitting and placingTMT bar Fe 550 reinforcement in sub-structure complete as per drawing & technical specification complete as per the specification . MORTH Specification No.1600 & 2200(P.No.225 , I.No.28.8.3 of PW,P&IWTD S.R 2016-17)	MT	23.75
65	KSRRB M2300 -14. supplying , fitting and placing TMT bar Fe 550 reinforcement in super-structure complete as per as per drawing & technical specification complete as per the specification . MORTH Specification No.1600.(P.No.238 , I.No.29.29.3 of PW,P&IWTD S.R 2016-17))	MT	5.46

6648.84	35.88	238527.14	0.00	0.00	35.88	238527.14
303.51	78.75	23901.41	0.00	0.00	78.75	23901.41
2686.26	20.00	53725.20	0.00	0.00	20.00	53725.20
7305.68	20.48	149583.80	0.00	0.00	20.48	149583.80
8229.79	18.11	149062.07	0.00	0.00	18.11	149062.07
8324.92	28.26	235283.05	8.27	68847- 68867.90	36.54	304130- 304150.95
62834.96	4.29	269738.76	7.93	498082.49	12.22	767821.24
63844.01	2.29	145960.25	0.00	0.00	2.29	145960.25

66	KSSRB M220 - 8. Providing weep holes in Brick masnory / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing foce. Complete as per drawing and Technical specifications complete as per specifications. MORTH Specification No. 2706 & 2200 (P.No.225, I.No.28.10 of PW,P&IWTD S.R 2016-17))	Nos/Mtr	82.50
69	KSRRB 2200-9 Filter Media Providing & laying of Filter media With Granular meterails / Stone crushed aggregates satisfying the requirement laid down in clause 2500.4.2.2 of MORTH Specification to a thickness on not less than 600 mm width smaller size towards the soil & bigger size towards wall & provided over the entire surface behind Abutment, Wing wall & return wall to the full height compacted to a firm condition complete as per Drawing & Techincal Specifications. Complete as per specification MORTH Specification No. 710.14of IRC: 78& 2200(P.No.225, I.No.28.13 of PW,P&IWTD 2016-17))	Cum	137.70
70	KSRRB 2200-8.1 Back filling behind Abutment, Wing wall & return wall to the full height compacted to a firm condition complete as per Drawing & Techincal Specifications. Complete as per specification A. Granular Material MORTH Specification No. 710.14of IRC: 78& 2200.With all Leads & Lift etc & as per the direction of the Engineer Incharge of the Work.(P.No.225, I.No.28.11 of PW,P&IWTD S.R 2016-17))	Cum	405.00
74	KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. iii) Dismantling Stone Masonry B. Rubble Stone maonry in cement mortar (P.No.138, I.No.18.27 of PW,P&IWTD SR 2016-17)	Cum	60.18
77	Add cost of Waste Plastic @ 8% of Bitumen Weight	kgs	19315.30
	Amount Rs in Words:		

Certificate:

1 Certified that the contractor has done the work satisfactorly
2 Certified that the debris has been removed from the site
3 Certified that the No dues from the contractor
4 Certified that the above item of the work were not claimed in any other bill

190.26	52.50	9988.65	0.00	0.00	52.50	9988.65
1467.70	34.65	50855.81	0.00	0.00	34.65	50855.81
593.42	86.63	51405.01	0.00	0.00	86.63	51405.01
376.59	47.25	17793.88	0.00	0.00	47.25	17793.88
28.31	7606.54	215341.19	0.00	0.00	7606.54	215341.19
		51466292.89		10002370.25		61468663.14
Item NO: 39, Excess payment		5140603-00	Deducted (-)	9936807-00 20649-00		6138806.9- 20649-

Rupees One Crore Two Thousnad Three Hundred Seventy Rupees Twenty Five Paise Only

Rs. 9936807-00 6138806.9-

TEJUS CONSULTANTS

Assistant Executive Engineer
Kodigehalli Sub Divn.
Yelahanka Zone, B.B.M.P.
Bangalore.